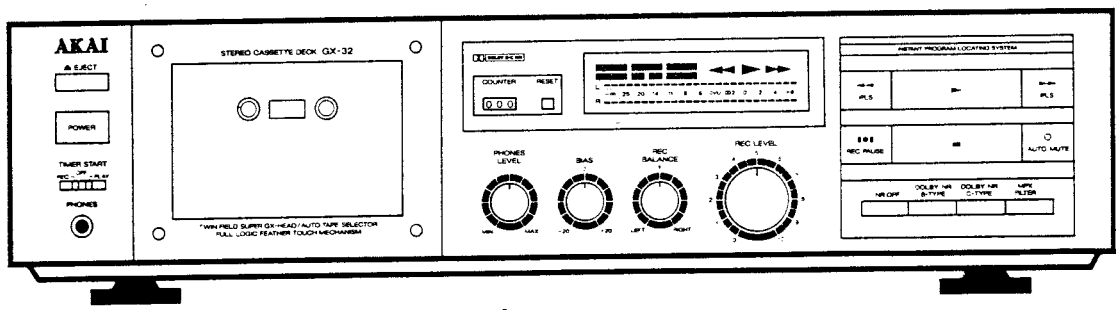
AKAI SERVICE MANUAL



STEREO CASSETTE DECK

MODEL GX-32

SPECIFICATIONS

Track system	4 track 2 channel stereo
Heads	Twin field super GX head for recording and playback × 1 Erase head × 1
Motors	Electronically speed controlled DC motor for capstan drive × 1
Wow & flutter	0.05% WRMS (JIS), 0.09% (DIN)
S/N (Metal)	59 dB (Measured via tape with 3% THD recording level) Dolby B type NR switch ON: Improves up to 5 dB at 1 kHz, 10 dB above 5 kHz Dolby C type NR switch ON: Improves up to 15 dB at 500 Hz, 20 dB at 1 kHz to 10 kHz
T.H.D. (Metal)	Less than 0.9%
Frequency response	
Normal	25 Hz to 17,000 Hz ±3 dB
CrO_2	25 Hz to 18,000 Hz ±3 dB
Metal	25 Hz to 20,000 Hz ±3 dB
Input sensitivity/Impedances	
LINE	70 mV/47 k ohms
Output sensitivity/Impedance	
LINE	388 mV/20 k ohms
HEADPHONES	1.3 mW/8 ohms
Power requirements	120 V, 60 Hz for USA & Canada 220 V, 50 Hz for Europe except UK 240 V, 50 Hz for UK and Australia 110 V/120 V/220 V/240 V, 50/60 Hz convertible for other countries
Dimensions	425 (W) × 112 (H) × 352 (D) mm (16.7 × 4.4 × 13.9 inches)
Weight	5.4 kg (11.9 lbs)

Standard accessories

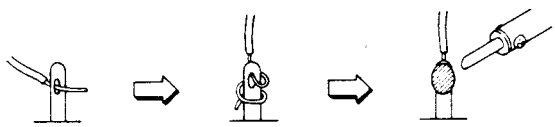
Connection cord ..... × 2

* For improvement purposes, specifications and design are subject to change without notice.
* Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for C or A, specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

★INFORMATION

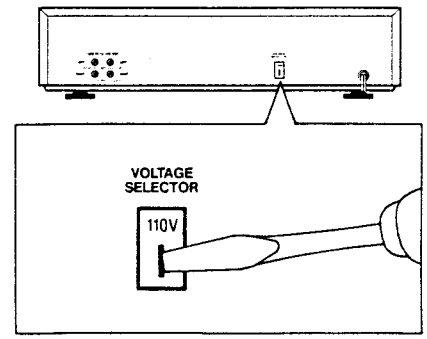
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

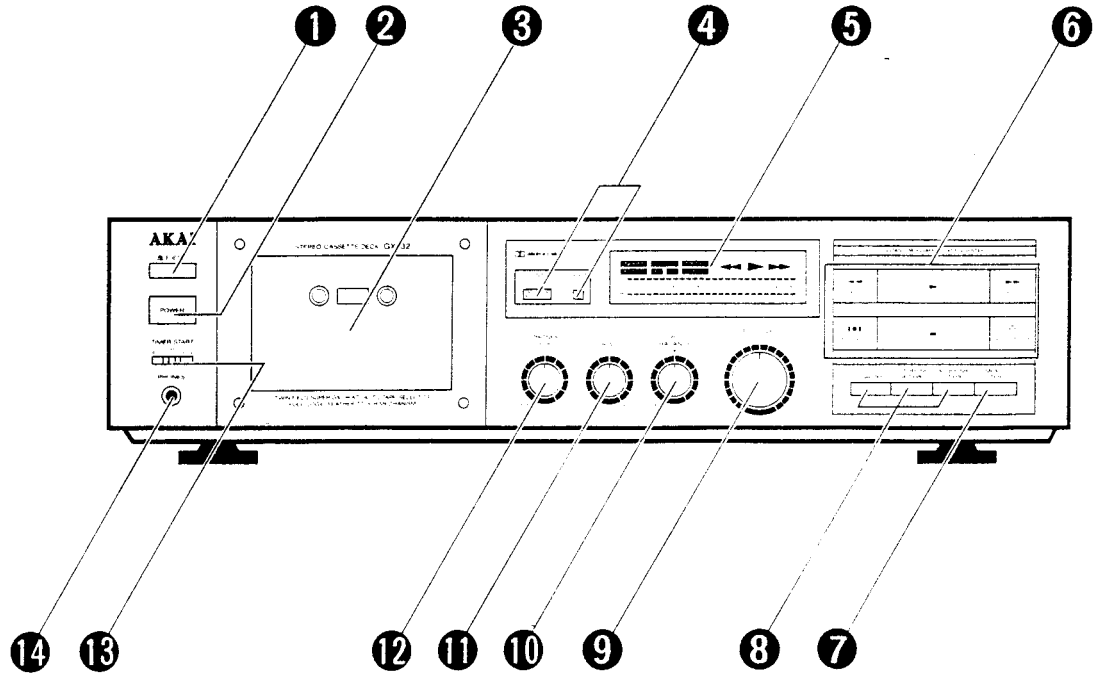
Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

VOLTAGE CONVERSION (U Model only)

Before connecting the power cord. SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



I. CONTROLS



❶ ⏏ EJECT Button
To open the cassette holder.

❷ POWER Button
To turn the power on and off.

❸ Cassette Holder and Lid
Load a cassette tape here.

❹ Tape COUNTER and RESET Button
Tells you how much tape has run during playback or recording.
Use the RESET button to reset the tape COUNTER to "000".

❺ FL (Fluorescent) Display
Tells you what the cassette deck is doing.

❻ Operation Buttons (◀◀: Rewind button, ▶: Play button, ▶▶: Fast forward button, ●▮: REC PAUSE button, ■: STOP button, O : AUTO MUTE button)
For recording, playback and tape winding operations.

❼ MPX FILTER Switch
To turn the multiplex filter on and off.

❽ Noise Reduction Selector (NR OFF, DOLBY B-TYPE, DOLBY C-TYPE)
To select the noise reduction system for recording and playback purposes.

❾ REC LEVEL Control
To set the recording input level. Right and left channel levels are adjusted equally.

❿ REC BALANCE Control
To set the recording level balance of the left and right channels. Set the control to its center click position for stereo recording.

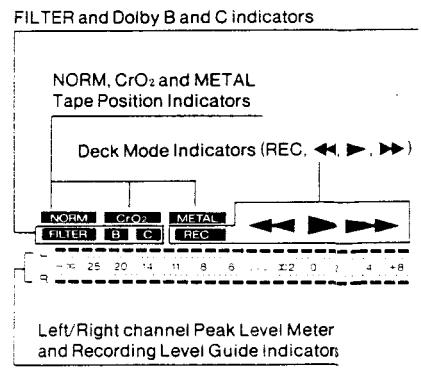
⓫ BIAS Control
To set the recording bias current. The bias adjustment range is between −20% and +20% of the proper bias current for Normal and CrO_2 position tapes. Normally set the control to the center click "0" position.

⓬ PHONES LEVEL Control
To adjust the output level of the PHONES jack.

⓭ TIMER START Switch (REC/OFF/PLAY)
To select operation of the timer start function when the power is turned on.

⓮ PHONES Jack
For headphone connection.

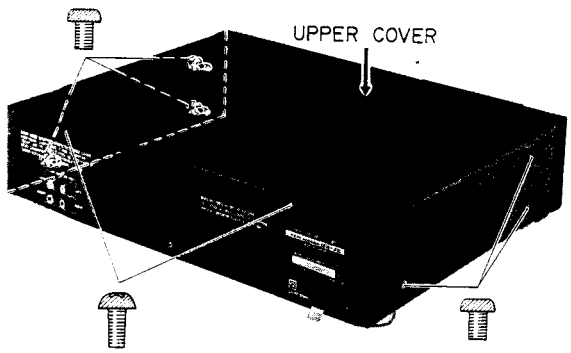
FL (Fluorescent) Display



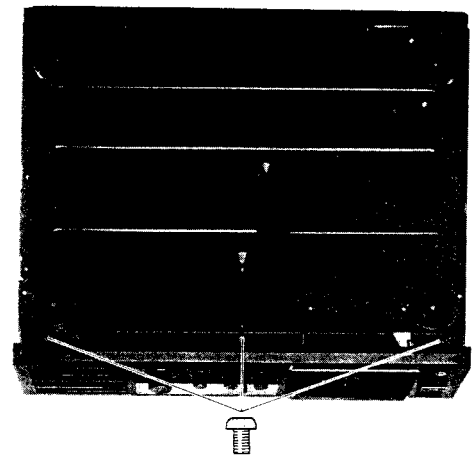
II. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

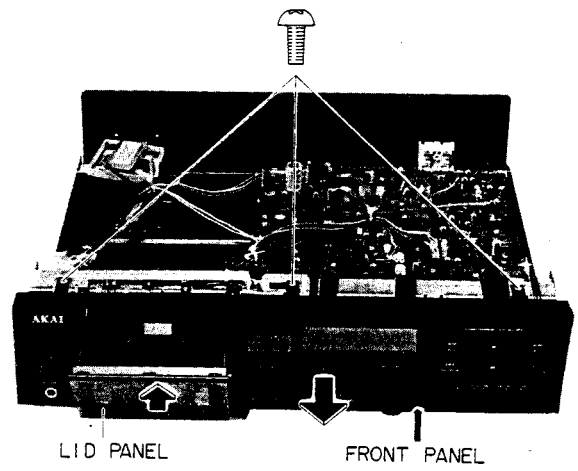
1. Removal of UPPER COVER



2. Removal of LID PANEL and FRONT PANEL



3.



※ REMOVE THE CASSETTE LID, THEN REMOVE FRONT PANEL.

III. PRINCIPAL PARTS LOCATION

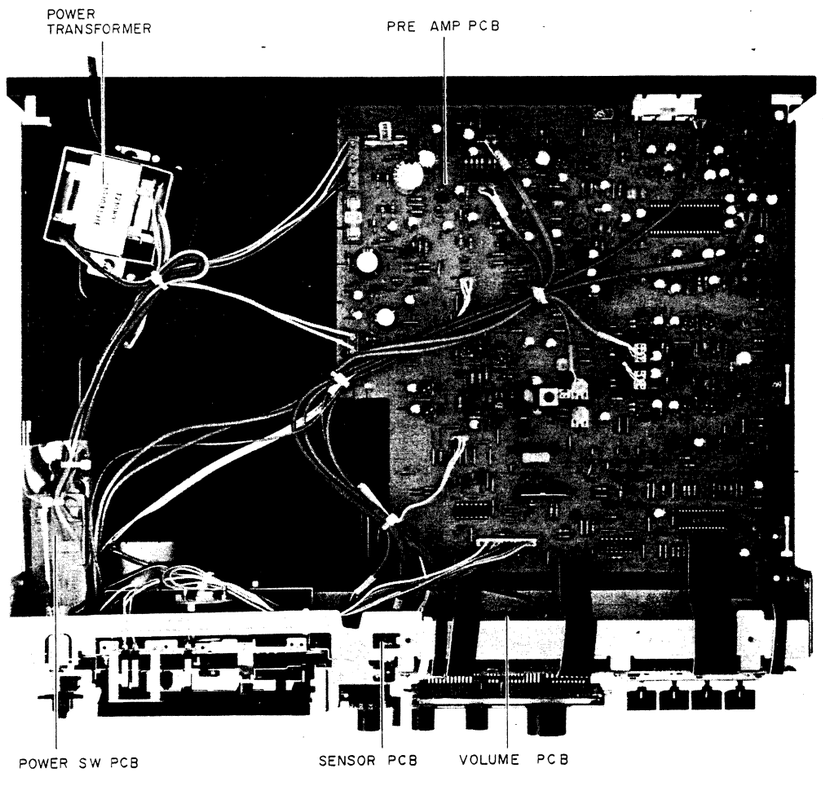


Fig. 3-1. Top View

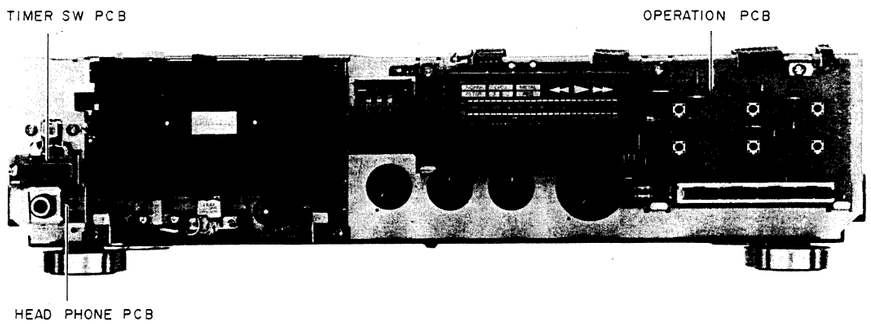


Fig. 3-2. Front View

IV. MECHANICAL ADJUSTMENT

4-1. ADJUSTMENT OF REC/PB HEAD AZIMUTH ALIGNMENT

1) Connect AC milli-volt meter and oscilloscope to LINE OUT of LEFT and RIGHT channels.
2) Play back a 10 kHz, −15 dB Test Tape (AT-750778) and adjust SCREW Ⓐ so that the waveforms on the oscilloscope are in the same phase at maximum output level.

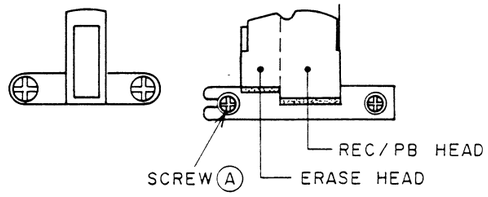


Fig. 4-1

4-2. TAPE SPEED ADJUSTMENT

1) Connect a frequency counter to LINE OUT.
2) Play back a 3,150 Hz, 0 dB Test Tape (AT-751263), and adjust TAPE SPEED CONTROL in the CAPSTAN MOTOR so that the reading on the Frequency counter is 3,150±5 Hz.

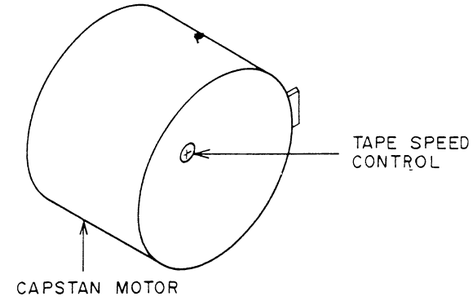


Fig. 4-2

V. ELECTRICAL ADJUSTMENTS

NOTE 1. All adjustments are adjusted without DOLBY, and MPX FILTER.
2. Use the following cassette measuring tape.

NORMAL Tape	:	MAXELL	UD-I C-60
CrO_2 Tape	:	TDK	SA C-60
METAL Tape	:	TDK	MA C-60

STEP	ADJUSTMENT ITEM
1.	Test Tape/Input Signal
2.	Mode
3.	Adjustment Part
4.	Result and Remarks

ADJ. Part →

5	CrO_2 POSITION BIAS

1. CrO_2 Blank Tape
   1 kHz, 10 kHz, −26.0 dBm at LINE OUT
2. REC → PLAY
3. VR402
4. · Connect AC milli-volt meter to LINE OUT
   · Set the BIAS control on the Front panel to Center click (0) position.
   · Playback levels 1 kHz and 10 kHz are equal.

6	METAL POSITION BIAS

1. METAL Blank Tape
   1 kHz, 10 kHz, −26.0 dBm at LINE OUT
2. REC → PLAY
3. VR403
4. · Connect AC milli-volt meter to LINE OUT
   · Set the BIAS control on the Front panel to Center click (0) position.
   · Playback levels 1 kHz and 10 kHz are equal.

1	METER SENSITIVITY

1. 1 kHz
2. REC PAUSE
3. VR751 (L CH), VR751b (R CH)
4. · Connect AC milli-volt meter to LINE OUT and set the INPUT level so that the reading on the AC milli-volt meter is −6.0 dBm.
   · Light the 0 VU indicator LED on the FRONT PANEL.

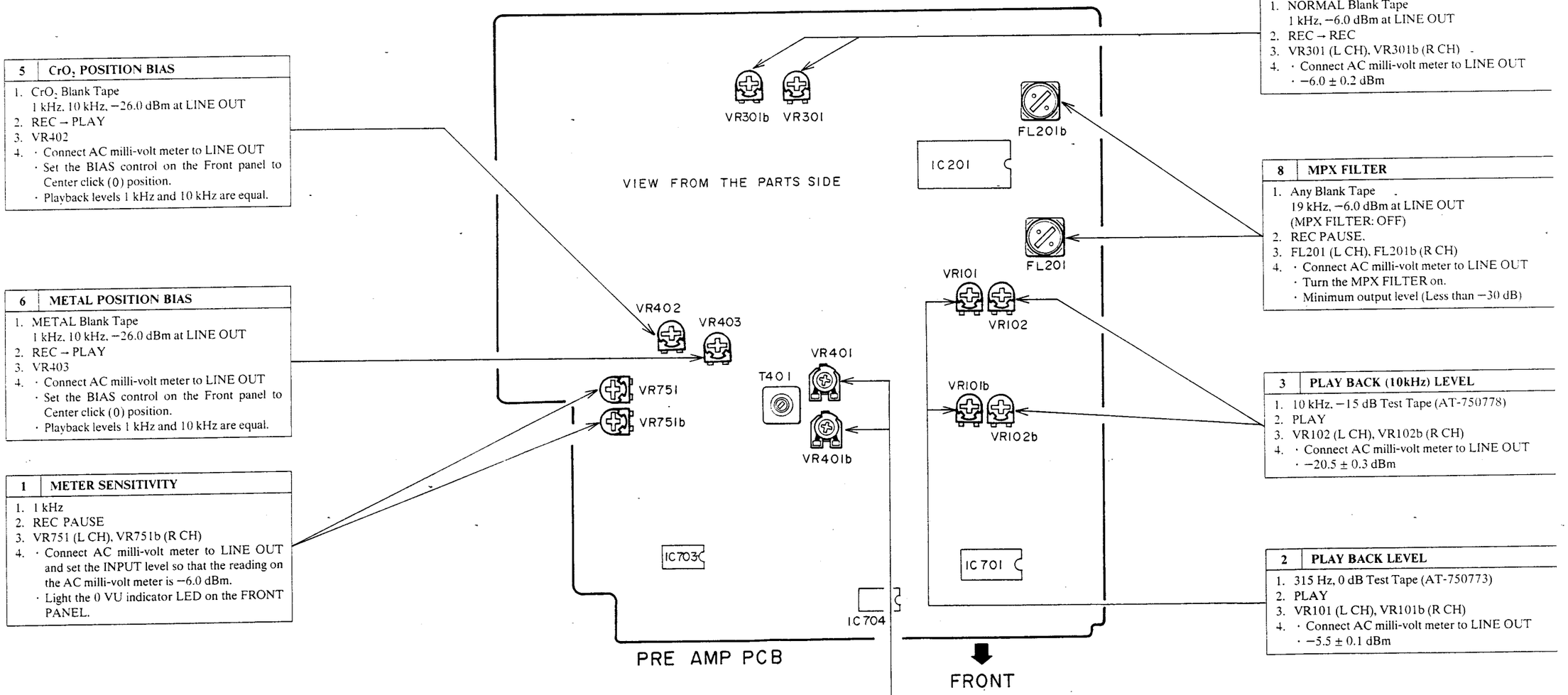


Fig. 5-1 INSTRUMENTS CONNECTION

4	NORMAL POSITION BIAS

1. Normal Blank Tape
   1 kHz, 10 kHz, −26.0 dBm at LINE OUT
2. REC → PLAY
3. VR401 (L CH), VR401b (R CH)
4. · Connect AC milli-volt meter to LINE OUT
   · Set the BIAS control on the Front panel to Center click (0) position.
   · Playback levels 1 kHz and 10 kHz are equal.

7	RECORDING LEVEL

1. NORMAL Blank Tape
   1 kHz, −6.0 dBm at LINE OUT
2. REC → REC
3. VR301 (L CH), VR301b (R CH)
4. · Connect AC milli-volt meter to LINE OUT
   · −6.0 ± 0.2 dBm

8	MPX FILTER

1. Any Blank Tape
   19 kHz, −6.0 dBm at LINE OUT
   (MPX FILTER: OFF)
2. REC PAUSE.
3. FL201 (L CH), FL201b (R CH)
4. · Connect AC milli-volt meter to LINE OUT
   · Turn the MPX FILTER on.
   · Minimum output level (Less than −30 dB)

3	PLAY BACK (10kHz) LEVEL

1. 10 kHz, −15 dB Test Tape (AT-750778)
2. PLAY
3. VR102 (L CH), VR102b (R CH)
4. · Connect AC milli-volt meter to LINE OUT
   · −20.5 ± 0.3 dBm

2	PLAY BACK LEVEL

1. 315 Hz, 0 dB Test Tape (AT-750773)
2. PLAY
3. VR101 (L CH), VR101b (R CH)
4. · Connect AC milli-volt meter to LINE OUT
   · −5.5 ± 0.1 dBm

VI. PARTS LIST

ATTENTION

1. **When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.**
2. **Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.**
3. **Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.**

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20×03STL CMT
2-4	ZS-536488	BID20×08STL CMT
2-5	ZG-402895	SP CS ANGLE ADJUST

- ZG: SP (Service Parts) Classification
- 2-1x: A small "x" indicates that this part is not shown in the Photo or Illustration.
- 2-2: This number corresponds with the individual parts index number in that figure.
- 2-5: This number corresponds with the Figure Number.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
6-IC1	EI-324536	IC HD14049BP
6-IC2	EI-336801	IC MB8841-564M
6-C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
6-C1B	EC-350949	C MMY V 223M 250DC [J]
6-C1C	EC-338397	C MMY V 223M 125AC [C,A]
6-X1	EI-318384	OSC X'TAL NC-18C

- [C,A]: Symbols for primary destination
  - [A]: AAL(U.S.A.) [S]: SAA(Australia)
  - [B]: BEAB(England) [U]: U/T(Universal Area)
  - [C]: CSA(Canada) [V]: VDE(W. Germany)
  - [E]: CEE(Europe) [Y]: Custom Version
  - [J]: JPN(Japan)
- EI: SP (Service Parts) Classification
- 6-X1: These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately..

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

⚠ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

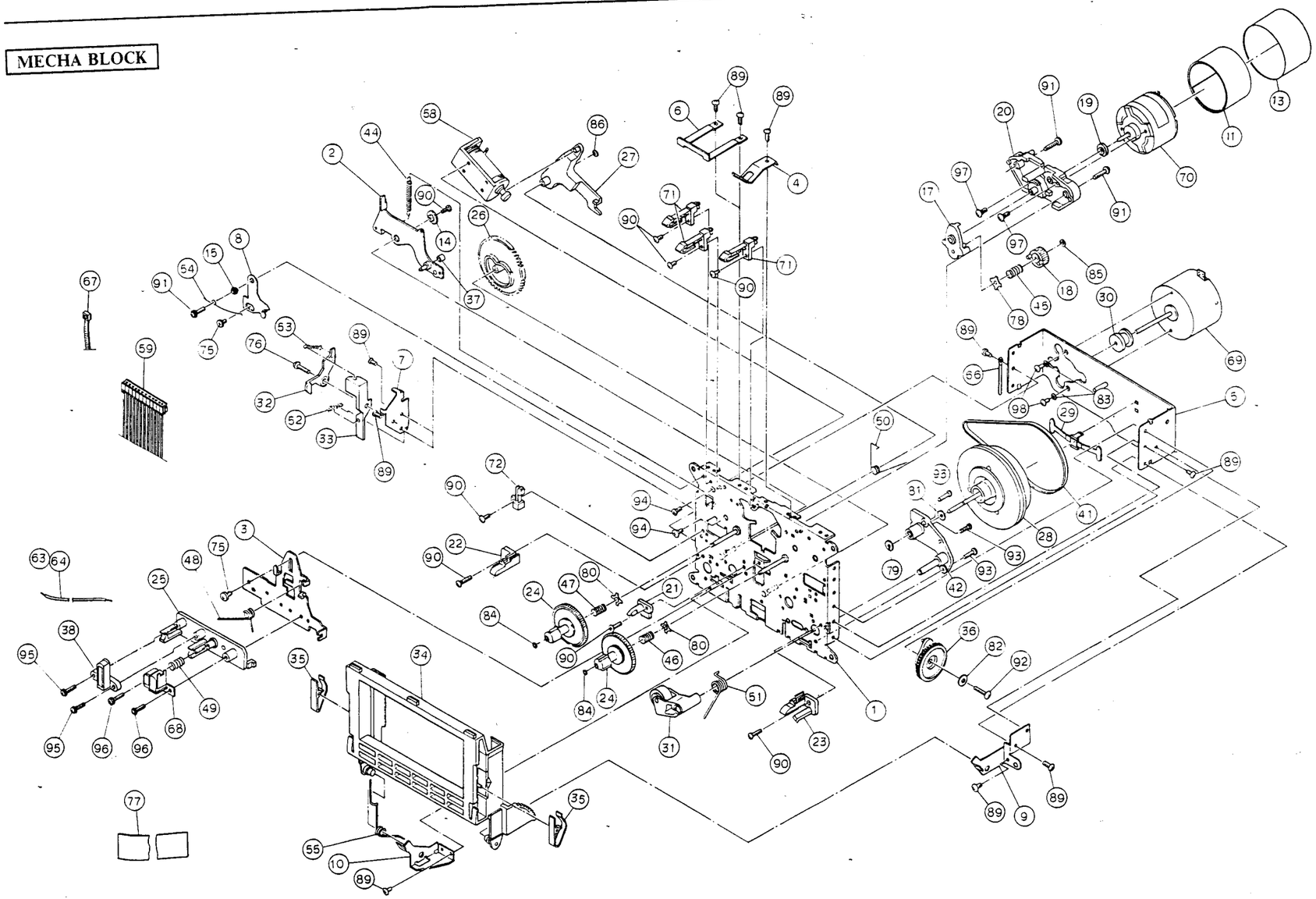
1. RECOMMENDED SPARE PARTS

Ref. No.	Part No.	Description
1	BB-T2108A050A	MECHA BLK GX-32 [INCL. 1 TO 98]
2	BF-725588J	FLYWHEEL ASSY (J)
3	BL-715968	PINCH ROLLER ASSY(R)
4	BM-718512	MOTOR BLK W/GEAR RF510T-12620 [REEL MOTOR]
5	BM-725446J	MOTOR BLK W/PULLEY EG500AD-2B [CAPSTAN MOTOR]
6	*BT-379933J	TRANS POW T2108(A,C) [A,C] [T901]
7	*BT-379936J	TRANS POW T2108(B) [B] [T901]
8	*BT-379935J	TRANS POW T2108(E) [E] [T901]
9	*BT-379932J	TRANS POW T2108(U) [U] [T901]
10	ED-307572	D SILICON H 1SS131
11	ED-624903	D SILICON H 1S2473
12	ED-330622	D SILICON 1SR35A-100 100/1.0A
13	*ED-346618	D ZENER H HZ15 1
14	*ED-346599	D ZENER H HZ4 C3
15	ED-337265	D ZENER H HZ6 C2
16	*ED-331667	D ZENER H HZ7 A1
17	*ED-378763J	D ZENER V HZ15LS7 3
18	*ED-348002	D ZENER V HZ2B-2S7
19	*EF-355226	FUSE BET T 250V 1.00A [B]
20	*EF-358974	FUSE BET T 250V 630MA [B]
21	*EF-623103	FUSE SEMKO T 250V 1.00A [E]
22	*EF-601942	FUSE SEMKO T 250V 630MA [E]
23	*EF-309387	FUSE TSC A 250V 1.00A [U]
24	*EF-306124	FUSE TSC A 250V 630MA [U]
25	*EF-310229	FUSE TSC 125V 1.00A [A,C]
26	*EF-305703	FUSE TSC 125V 630MA [A,C]
27	EH-370972	FILTER LC LP 370972
28	*EI-330352	IC BA6109
29	EI-359985	IC CX20187
30	EI-356327	IC HA12067NT
31	EI-337013	IC LB1290
32	EI-353867	IC LC4077B
33	EI-358774	IC LM6413E-542
34	EI-357498	IC M51143AL
35	EI-346071	IC M5218L-21
36	EI-348785	IC M5220L
37	EI-306726	IC TC4069UBP
38	EM-379954J	IND FL FIP26AW15YS
39	EP-715946	SOLENOID SS-066-701C
40	*ER-348272	R FUSE H S10 ERD2FC 1/4W 12R0G
41	*ER-349424	R FUSE H S10 ERD2FC 1/4W 18R0G
42	ES-725367J	SW LEAF LSA1120YN
43	ES-725366J	SW LEAF MSW1537-N
44	ES-373380	SW PUSH ESB-68630 4 THROW N [DOLBY NR]
45	*ES-377828J	SW PUSH ESB8296V 01-1 [POWER SW]
46	*ES-359606	SW SELECTOR JUH1420-0201 01-4 [U] [SW902]
47	ES-370965	SW SLIDE SSSU02 1-01-03N [TIMER SW]
48	ES-360576	SW TACT SKHHPM [PLAY]
49	ET-378849J	DETECTOR GP1S52
50	ET-369248	TR DTA114YS
51	ET-353897	TR DTC114ES
52	ET-354365	TR DTC114YS
53	ET-373485	TR DTC123JS
54	ET-354364	TR DTC143TS
55	ET-354414	TR DTC144ES
56	ET-370310	TR DTC144TS
57	ET-352726	TR 2SA1392 T,U
58	ET-308977	TR 2SC2274K F F05
59	*ET-349272	TR 2SC3242A E,F F05
60	ET-349081	TR 2SC3383 S,T
61	ET-379239	TR 2SD1380 Q,R
62	EV-373387	VR ROTARY RK16312A0 A104X2 [REC LEVEL]
63	EV-373385	VR ROTARY RK1631210 M104 N104 [REC BALANCE]
64	EV-370008	VR ROTARY T2094 B202 [BIAS ADJ]
65	EV-370005	VR ROTARY T2094 2 THROW A503 [HEADPHONE LEVEL]
66	HP-H2507A010A	HEAD COMB EPR4-13TG2
67	MB-715967	BELT CAPSTAN(A)
68	MB-379843J	BELT COUNTER
69	MC-357702	COUNTER MK395-057
70	MI-715949	IDLER ARM ASSY
71	MT-715957	REEL TABLE
72	MZ-715952	GEAR IDLER
73	MZ-725353J	GEAR MOTOR
74	MZ-715962	GEAR PLAY

2. MECHA BLOCK

Ref. No.	Part No.	Description
4	ZG-715954	SP CASSETTE HOLDER
6	MZ-725348J	PROTECTOR SW (B)
8	MZ-725349J	ARM LOCK EJECT
11	SZ-725350J	SHIELD PLATE
14	MZ-725351J	COLLAR SHIFT ARM
15	MZ-725352J	COLLAR LOCK ARM
17	MI-715949	IDLER ARM ASSY
18	MZ-715952	GEAR IDLER
19	MZ-725353J	GEAR MOTOR
20	MZ-725354J	BASE IDLER
21	TC-725355J	GUIDE CASSETTE
22	TC-725356J	GUIDE CASSETTE (L)
23	TC-725357J	GUIDE CASSETTE (R)
24	MT-715957	REEL TABLE
25	HZ-715959	BASE HEAD
26	MZ-715962	GEAR PLAY
27	ML-725358J	ARM PLANGER
28	BF-725588J	FLYWHEEL ASSY (J)
29	ZW-715966	SPACER CAPSTAN
30	MR-725359J	PULLEY MOTOR (A)
31	BL-715968	PINCH ROLLER ASSY(R)
32	ML-715970	STOPPER CASSETTE
33	ML-715971	EJECTOR
34	TC-715976	HOLDER CASSETTE
35	ZG-712816	CLAMP CASSETTE

MECHA BLOCK



Ref. No.	Part No.	Description
36	TC-715979	DAMPER ASSY
37	MZ-725360J	COLLAR SHIFT ARM
38	MS-715941	TAPE GUIDE
41	MB-715967	BELT CAPSTAN(A)
42	MZ-715947	HOUSING ASSY (R)
44	ZG-725361J	SP SHIFT ARM
45	ZG-725362J	SP CLUTCH (B)
46	ZG-725363J	SP REEL (T)
47	ZG-725364J	SP REEL (S)
48	ZG-718509	SP HEAD CHASSIS (F)
49	ZG-749268	SP HEAD
50	ZG-715964	SP ARM PL
51	ZG-715969	SP PINCH ROLLER(R)
52	ZG-715973	SP EJECT (A)
53	ZG-715974	SP EJECT (B)
54	ZG-725365J	SP LOCK ARM
55	ZG-715978	SP TORSION

Ref. No.	Part No.	Description
58	EP-715946	SOLENOID SS-066-701C
68	HP-H2507A010A	HEAD COMB EPR4-13TG2
69	BM-725446J	MOTOR BLK W/PULLEY EG500AD-2B [CAPSTAN MOTOR]
70	BM-718512	MOTOR BLK W/GEAR RF510T-12620 [REEL MOTOR]
71	ES-725366J	SW LEAF MSW1537-N
72	ES-725367J	SW LEAF LSA1120YN
75	ZS-725368J	SCREW
76	ZS-715982	SCREW(B)
78	ZW-725589J	PSW16X060X050
79	ZW-725370J	WASHER 21X040X050
80	ZW-725371J	WASHER
81	ZW-725370J	WASHER 21X040X050
82	ZW-725372J	PW
83	ZW-725373J	TW26
84	ZW-725374J	PSW10X035X050

Ref. No.	Part No.	Description
85	ZW-718513	PW17X035X050PSL
86	ZW-725375J	PSW21X040X050
90	ZS-725376J	T2PAN20X05
91	ZS-725377J	T2PAN20X08
92	ZS-725378J	T2PAN20X10
93	ZS-725379J	T2BID20X04
95	ZS-725380J	BID20X11
96	ZS-725381J	WS PAN20X10
97	ZS-725382J	SCREW 26X04
98	ZS-725383J	PAN26X03
100	BB-T2108A050A	MECHA BLK GX-32 [INCL. 1 TO 98]

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

3. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-T2108A020A	PC(#) PRE AMP BLK GX-32

PC (#) PRE-AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- PRE-AMP P.C BOARD
- OPERATION P.C BOARD
- VR P.C BOARD
- POWER SW P.C BOARD
- HEADPHONE P.C BOARD
- SENSOR P.C BOARD
- TIMER P.C BOARD

4. PRE-AMP P.C BOARD

Ref. No.	Part No.	Description10W 331
VR102	EV-356583	R S-FIX H RH0615C 0.10W 332
VR301	EV-358829	R S-FIX H RH0615C 0.10W 223
VR401	EV-330531	R S-FIX H TM8KV2-1S 0.50W503
VR402	EV-356575	R S-FIX H RH0615C 0.10W 222
VR403	EV-356579	R S-FIX H RH0615C 0.10W 102
VR751	EV-356582	R S-FIX H RH0615C 0.10W 473
F1A	*EF-309387	FUSE TSC A 250V 1.00A [U]
F2A	*EF-306124	FUSE TSC A 250V 630MA [U]
F1B	*EF-310229	FUSE TSC 125V 1.00A [A,C]
F2B	*EF-305703	FUSE TSC 125V 630MA [A,C]
F1C	*EF-623103	FUSE SEMKO T 250V 1.00A [E]
F2C	*EF-601942	FUSE SEMKO T 250V 630MA [E]
F1D	*EF-355226	FUSE BET T 250V 1.00A [B]
F2D	*EF-358974	FUSE BET T 250V 630MA [B]

5. OPERATION P.C BOARD

Ref. No.	Part No.	Description
D751	ED-624903	D SILICON H 1S2473
D752	ED-624903	D SILICON H 1S2473
D753	ED-624903	D SILICON H 1S2473
D754	ED-624903	D SILICON H 1S2473
D755	ED-624903	D SILICON H 1S2473
D756	ED-624903	D SILICON H 1S2473
D757	ED-624903	D SILICON H 1S2473
D758	ED-624903	D SILICON H 1S2473
D759	ED-624903	D SILICON H 1S2473
D760	ED-307572	D SILICON H 1SS131
IC751	EI-356327	IC HA12067NT
IC752	EI-337013	IC LB1290
IN701	EM-379954J	IND FL FIP26AW15YS
SW751	ES-373380	SW PUSH ESB-68630 4 THROW N [DOLBY NR]
SW752	ES-360576	SW TACT SKHHPM [PLAY]
SW753	ES-360576	SW TACT SKHHPM [STOP]
SW754	ES-360576	SW TACT SKHHPM [REW]
SW755	ES-360576	SW TACT SKHHPM [FF]
SW756	ES-360576	SW TACT SKHHPM [REC]
SW757	ES-360576	SW TACT SKHHPM [AUTO MUTE]

6. VR P.C BOARD

Ref. No.	Part No.	Description
VR302	EV-373387	VR ROTARY RK16312A0 A104X2 [REC LEVEL]
VR303	EV-373385	VR ROTARY RK1631210 M104 N104 [REC BALANCE]
VR404	EV-370008	VR ROTARY T2094 B202 [BIAS ADJ]
VR601	EV-370005	VR ROTARY T2094 2 THROW A503 [HEADPHONE LEVEL]

7. POWER SW P.C BOARD

Ref. No.	Part No.	Description
C810	*EC-338411	C CE V FZ 103P 400AC
SW801	*ES-377828J	SW PUSH ESB8296V 01-1 [POWER SW]

8. HEADPHONE P.C BOARD

Ref. No.	Part No.	Description
J601	EJ-369995	PHONE J 3P HLJ0540-410 GP 6.3 [HEADPHONE9

9. SENSOR P.C BOARD

Ref. No.	Part No.	Description
PH701	ET-378849J	DETECTOR GP1S52

10. TIMER P.C BOARD

Ref. No.	Part No.	Description
SW758	ES-370965	SW SLIDE SSSU02 1-01-03N [TIMER SW]

11. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SA-379375	FOOT(N)
2	ZS-354055	ST BR30X12STL CMT
3	MC-357702	COUNTER MK395-057
4	MB-379843J	BELT COUNTER
5A	*BT-379932J	TRANS POW T2108(U) [U] [T901]
5B	*BT-379933J	TRANS POW T2108(A,C) [A,C] [T901]
5C	*BT-379935J	TRANS POW T2108(E) [E] [T901]
5D	*BT-379936J	TRANS POW T2108(B) [B] [T901]
6	ZS-313796	ST BID40X06STL CMT
7	*ES-359606	SW SELECTOR JUH1420-0201 01-4 [U] [SW902]
8	ZS-352133	ST BR30X10STL CMT
9A	SP-379937J	PANEL REAR GX-32(U) [U]
9B	SP-379938J	PANEL REAR GX-32(A,C) [A,C]
9C	SP-379939J	PANEL REAR GX-32(E) [E]
9D	SP-379940J	PANEL REAR GX-32(B) [B]
10	ZS-354403	ST BR30X08STL BNI
11	ZS-350934	PT BR30X08STL BNI
12A	*EW-363654	AC CORD 200 0129AVFF B300 A U/ [U]
12B	*EW-363629	AC CORD200 0238ASPT2 B300 A UC [A,C]
12C	*EW-363667	AC CORD 200 0364 LCFL B300 A E [E]
12D	*EW-363679	AC CORD 200 LCFL B300 A B [B]
13A	*SZ-374024J1	INSULATOR TUBE [U,E,B]
13B	*SZ-380876J	INSULATOR TUBE(UL) [A,C]
14-B	BD-T2108A030A	PANEL FRONT BLK GX-32-B
14-G	BD-T2108A030B	PANEL FRONT BLK GX-32-G
15-B	SE-379847J	ESCUTCHEON(R) B
15-G	SE-379848J	ESCUTCHEON(R) G
16	SZ-379842J	LEVER EJECT
17-B	SK-358066B	KNOB SLIDE-BLACK
17-G	SK-358066E	KNOB SLIDE(4)
18-B	SK-373334A	KNOB VR(A)-BLACK
18-G	SK-373334B	KNOB VR(A)-GOLD
19-B	SK-373335A	KNOB VR(B)-BLACK
19-G	SK-373335B	KNOB VR(B)-GOLD
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20-G	SK-373340B	KNOB PUSH-GOLD
21-B	SK-373236B	KNOB POWER-B
21-G	SK-373236A	KNOB POWER-G
22-B	SK-379859J	KNOB EJECT B
22-G	SK-379860J	KNOB EJIECT G
23-B	SK-373336A	KNOB OPERATION(A) STOP-BLACK
23-G	SK-373336B	KNOB OPERATION(A) STOP-GOLD
24-B	SK-373336C	KNOB OPERATION(A) PLAY-BLACK
24-G	SK-373336D	KNOB OPERATION(A) PLAY-GOLD
25-B	SK-373337A	KNOB OPERATION(B) FF-BLACK
25-G	SK-373337B	KNOB OPERATION(B) FF-GOLD
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26-G	SK-373337D	KNOB OPERATION(B) REW-GOLD
27-B	SK-373337E	KNOB OPERATION(B) PAUSE-BLACK
27-G	SK-373337F	KNOB OPERATION(B) PAUSE-GOLD
28-B	SK-373337G	KNOB OPERATION(B) MUTE B
28-G	SK-373337H	KNOB OPERATION(B) MUTE-GOLD
29	ZS-342001	ST BR30X06STL NI3
30	ZS-305827	ST BID30X06STL BNI
31	TC-379861J	LID DECORATION PLATE
32	ZS-345272	ST BR30X06STL BNI
33	SZ-357722	REFLECTOR
34-B	BD-T2108A040A	LID PANEL BLK GX-32-B
34-G	BD-T2108A040B	LID PANEL BLK GX-32-G
35-B	SP-373343A	COVER UPPER-BLACK
35-G	SP-373343B	COVER UPPER-GOLD
36-B	ZS-341960	ST BID40X06STL BNI
36-G	ZS-341959	ST BID40X06STL NI3

NOTE:
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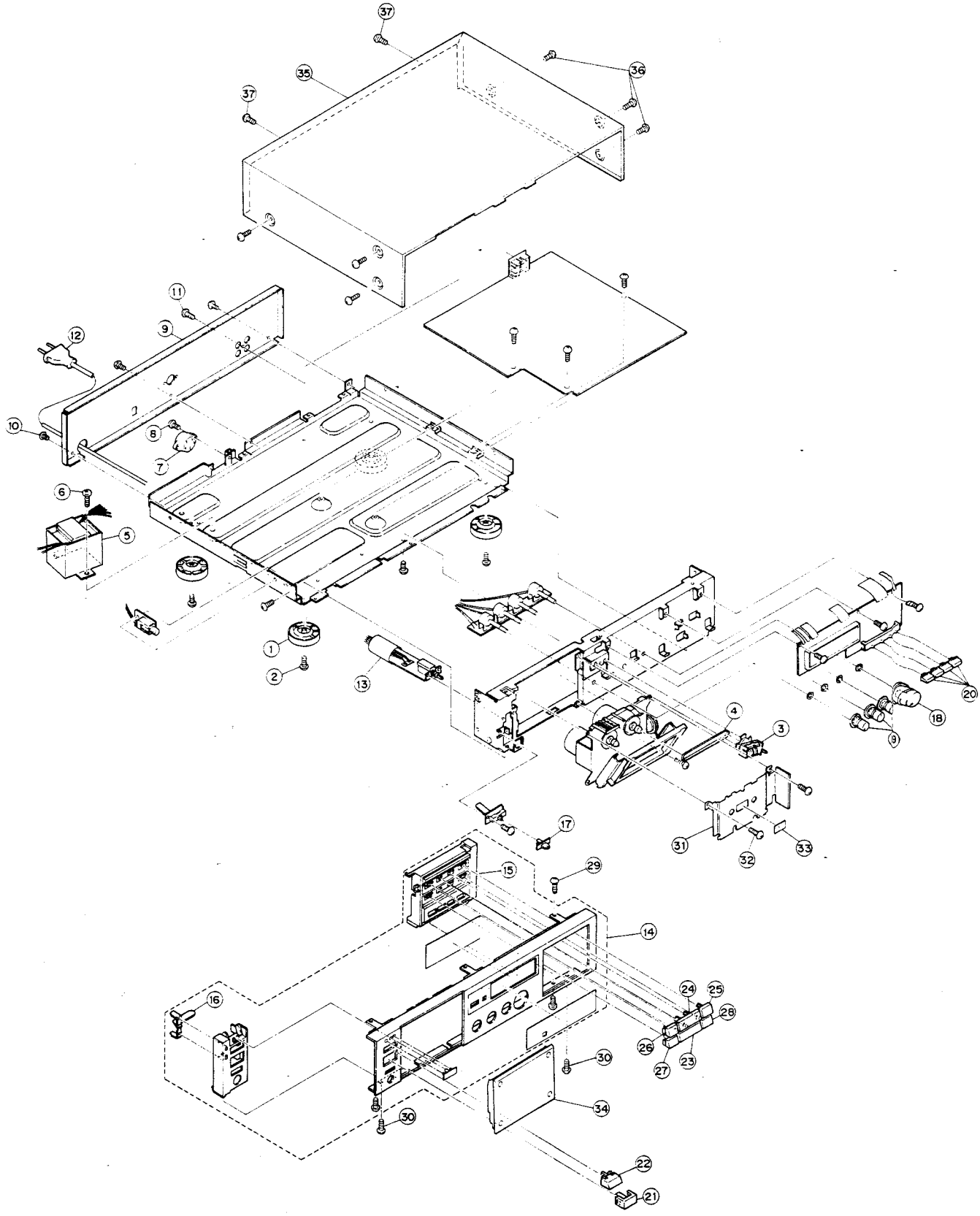
FINAL ASSEMBLY BLOCK



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ABBREVIATIONS FOR SERVICE MANUAL (CASSETTE)

Abbreviation	Explanation	Abbreviation	Explanation
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPlifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Tuning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPsTan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMParator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETector	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQualizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Forward	SIG	SIGnal
FLD	FLuorescent Display	SPECT	SPECTrum
FREQ	FREQuency	STD	STanDard
FWD	ForWarD	SW	SWitch
GND	GrouND	SYSCON	SYStem CONtrol
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLume
L	Low	VOLT	VOLTage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitining Diode	X'TAL	cysTAL
MEMO	MEMOry	X1	Normal speed
MICOM	MIcroCOMputer	X2	Dubble speed

AKAI ELECTRIC CO., LTD.

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AKAI

MODEL GX-32

SCHEMATIC DIAGRAM AND PC BOARDS

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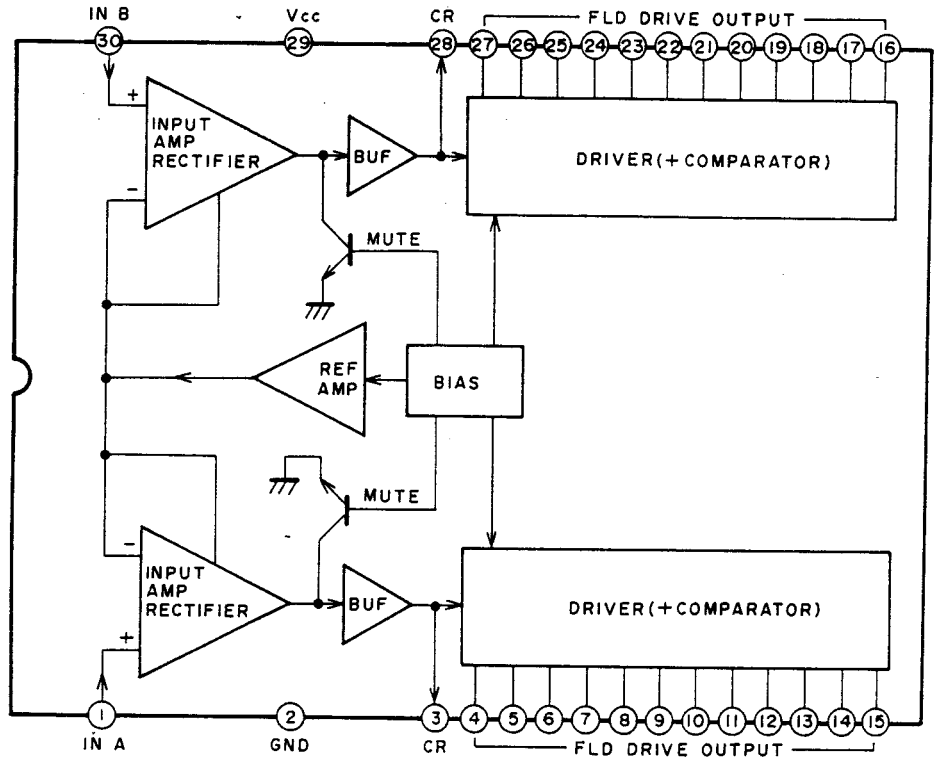
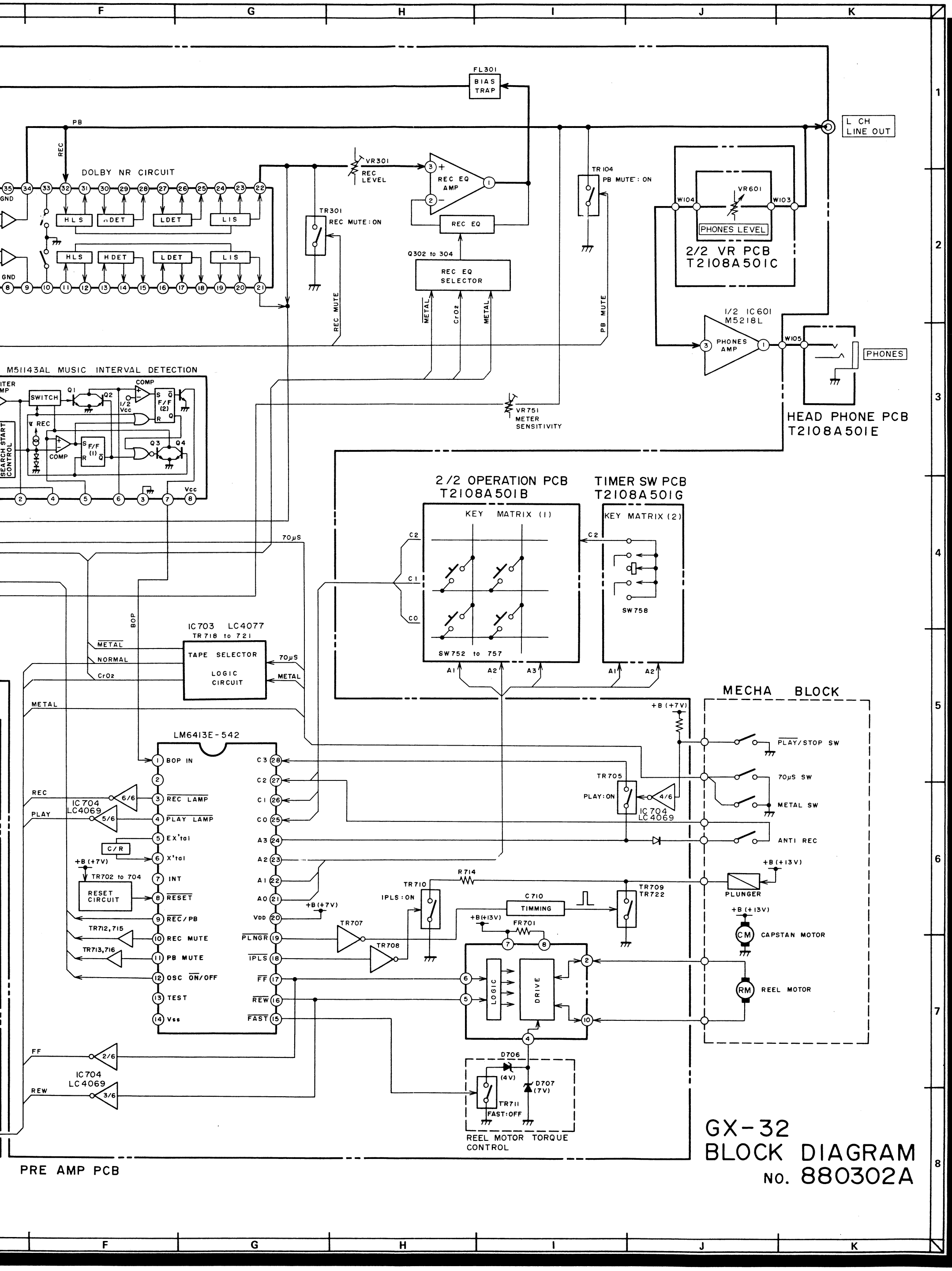
5. OTHER PC BOARDS 6

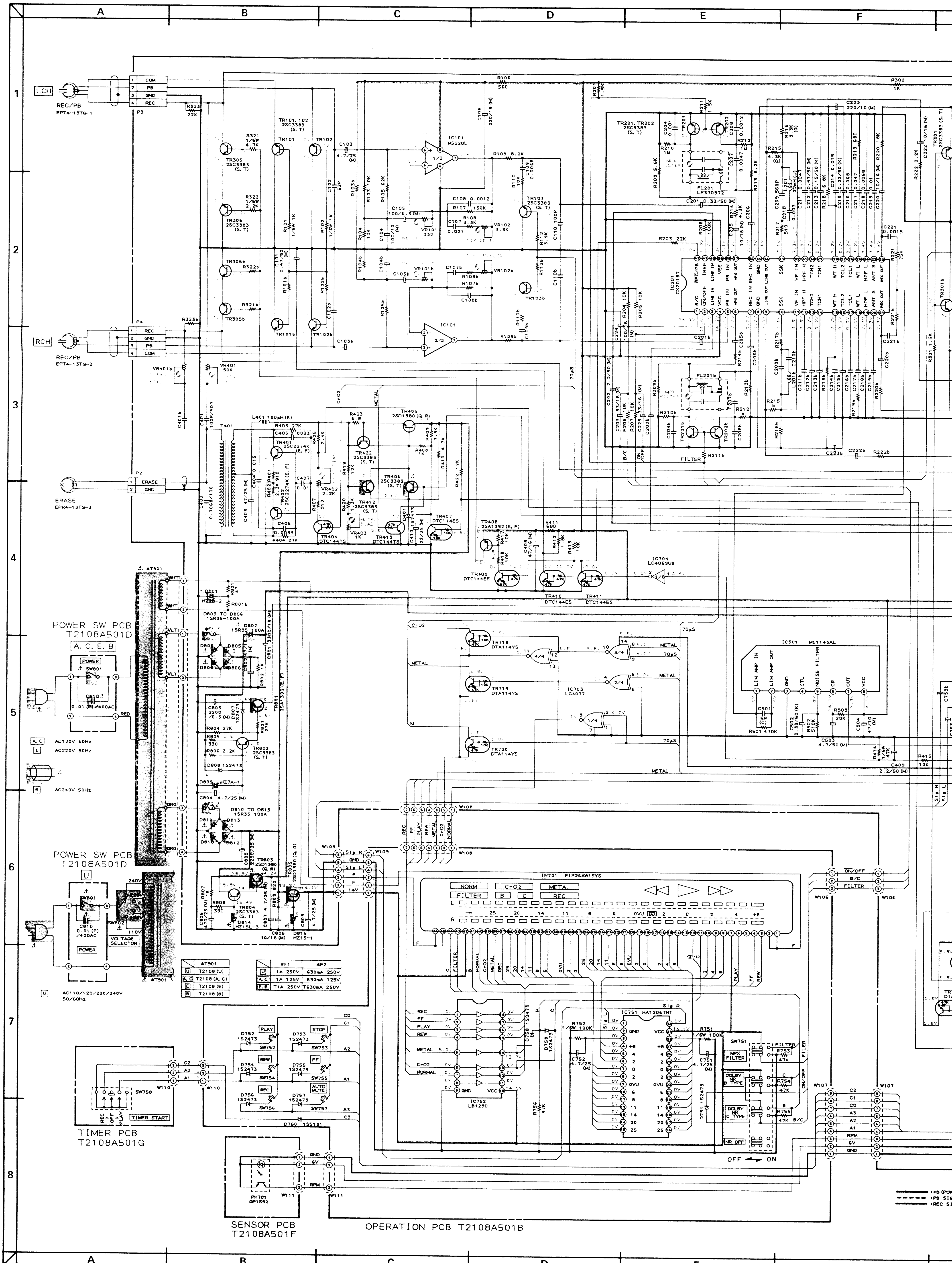
HA12067 (2 CHANNEL 12 POINT BAR DISPLAY DRIVER)



L CH REC/PB HEAD
ERASE HEAD
P3
P2
PB SIGNAL
REC SIGNAL
BIAS
L CH LINE IN
TR305, 306
PB : ON
TR101
REC : ON
TR102
1/2 IC 101 M5220L
PB EQ AMP
EQ
VR101 PB LEVEL
VR102 10KHz PB LEVEL
R109
C109 R110
70μS EQ
TR103
70μS : ON
TR201, 202
FILTER ON/OFF CONTROL
FILTER ON/OFF
FL201
MPX FILTER
PB
REC
DOLBY NR
REF
MODE
VEE
GND
Vcc
HLS
HDET
B/C
ON/OFF
+B (+15V)
TR410
R CH
VR401 NORMAL BIAS
TR408, 409
TR411
IC 704 LC4069
1/6
PB/REC
REC BALANCE
W101
VR303
W102
VR302
REC LEVEL
T401, TR401, 402
BIAS OSCILLATOR
TR422, R243
OVER CURRENT DETECTOR
OSC POWER SUPPLY VOLTAGE CONTROL
+B (BIAS)
R405
VR402 CrO2 BIAS
VR403 METAL BIAS
TR412
METAL BIAS CONTROL
BIAS
VR404
W112
TR404
CrO2
CrO2 : ON
TR406
EXTERNAL BIAS CONTROL
TR407
OSC POWER SUPPLY ON/OFF CONTROL
OSC ON/OFF
1/2 VR PCB
T2108A501C
IC501 M51143AL MUSIC INTERVA
Vcc
LIMITER AMP
SWITCH
Q1
Q2
1/2 Vcc
POWER RESET SEARCH START CONTROL
REC
COMP
F/F
METAL
NORMAL
CrO2
TR701
+7V REG
+B (+7V)
TR801, 802
POWER OFF DETECTOR
TO RESET CIRCUIT
D803 to 806
+B (+13V)
D810 to 813
+B (BIAS)
TR803, 804
+15V REG.
+B (+15V) TO AMP
TR805
+15V REG.
+B (+15V) TO OPERATION
FLD F1
IC 701
NORM
CrO2
METAL
FILTER
B
C
REC
25 20 14 11 8 6 OVU 2 0 2 4 +8
IC 752 LB 1290
SEGMENTS DRIVER
+B (+15V)
LEVEL METER COMPALATOR
L CH
R CH
IC 751 HA12067NT
MPX FILTER
FILTER
FILTER ON/OFF
DOLBY "C"
C
ON/OFF
DOLBY "B"
B
B/C
SW751 OFF ON
REC
PLAY
6/6
5/6
C/R
TR702 to 70
RESET CIRCUIT
TR712, 715
TR713, 716
FF
2/6
REW
3/6
1/2 OPERATION PCB
PRE AMP PCB



GX-32 BLOCK DIAGRAM NO. 880302A


A
B
C
D
E
F
1
2
3
4
5
6
7
8
LCH
REC/PB
EPT4-13TG-1
RCH
REC/PB
EPT4-13TG-2
ERASE
EPR4-13TG-3
IC101 M5220L
IC201 CX20187
FL201 LP370972
IC704 LC4069UB
IC703 LC4077
IC501 M51143AL
POWER SW PCB
T2108A501D
A, C, E, B
AC120V 60Hz
AC220V 50Hz
AC240V 50Hz
POWER SW PCB
T2108A501D
U
VOLTAGE SELECTOR
AC110/120/220/240V
50/60Hz
IN701 FIP26AW15YS
IC751 HA12067NT
IC752 LB1290
SW751
MPX FILTER
DOLBY NR B TYPE
DOLBY NR C TYPE
NR OFF
OFF ON
TIMER PCB
T2108A501G
SENSOR PCB
T2108A501F
OPERATION PCB T2108A501B
PH701 GP1S52
:+B (POW
:PB SIG
:REC SI

	*T901
U	T2108 (U)
A, C	T2108 (A, C)
E	T2108 (E)
B	T2108 (B)

	*F1	*F2
U	1A 250V	630mA 250V
A, C	1A 125V	630mA 125V
E, B	T1A 250V	T630mA 250V

+B (POWER SUPPLY) LINE
PB SIGNAL LINE
REC SIGNAL LINE

WARNING: ⚠ AND ■ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

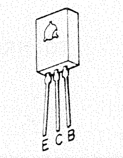
AVERTISSMENT: ⚠ ET ■ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

*INDICATED VOLTAGES ARE MEASURED IN STOP MODE.
*INDICATED SIGNAL LINES ARE LEFT CHANNEL ONLY.

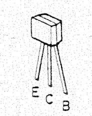
NOTE
UNLESS OTHERWISE SPESIFID
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPASITORS IN μF 50WV(J)

IC

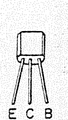
Part	Location	Part	Location	Part	Location
IC101	E5	TR303	F3	TR711	C4
IC201	G5	TR303b	F4	TR712	D5
IC301	G3	TR304	G3	TR713	D4
IC501	F4	TR304b	G4	TR715	D5
IC601	H2	TR401	E3	TR716	D4
IC701	C6	TR402	E3	TR718	D2
IC702	C3	TR404	F2	TR719	D2
IC703	C2	TR405	D3	TR720	C2
IC704	C4	TR406	E2	TR721	C5
		TR407	E2	TR722	D3
TRANSISTOR		TR408	D5	TR801	F2
TR101	E5	TR409	D5	TR803	H2
TR101b	D5	TR410	D6	TR804	H2
TR102	F5	TR411	D6	TR805	G2
TR102b	D5	TR412	E3		
TR103	E6	TR413	E2	**CONNECTOR**	
TR103b	F6	TR422	D3	P1	C3
TR104	H4	TR701	F1	P2	E4
TR104b	H4	TR702	D6	P3	E5
TR201	F6	TR703	C6	P4	E5
TR201b	H6	TR704	D5		
TR202	F6	TR705	C6		
TR202b	H6	TR706	C4		
TR301	H3	TR707	C4		
TR301b	H4	TR708	C5		
TR302	G3	TR709	D3		
TR302b	G4	TR710	D4		



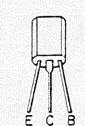
2SD1380



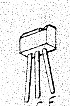
DTC123JS



2SA1392
2SC2274K
2SC3383



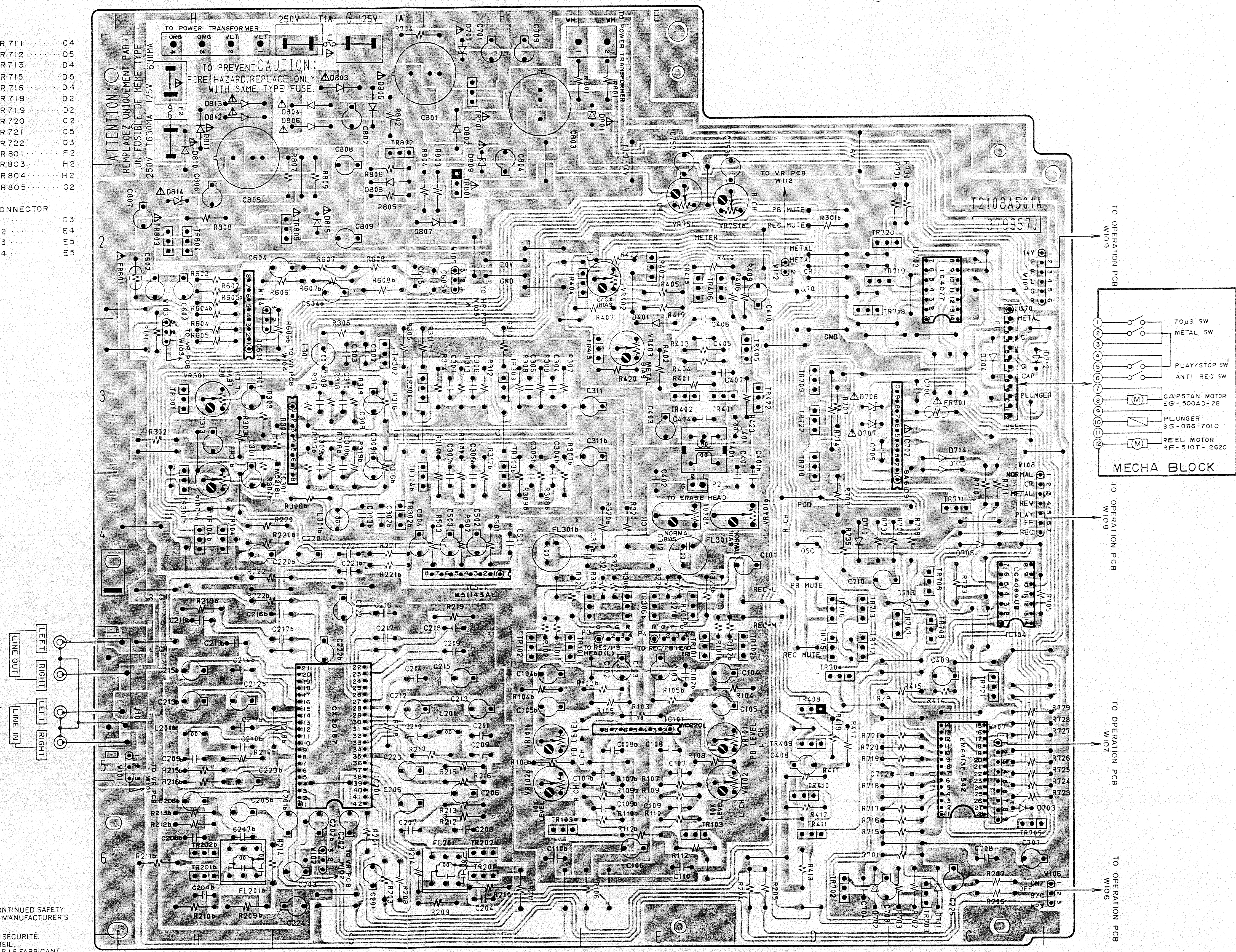
2SC3242A



DTA114YS
DTC114YS
DTC143TS
DTC144ES
DTC144TS

● ● ● = NPN TRANSISTOR

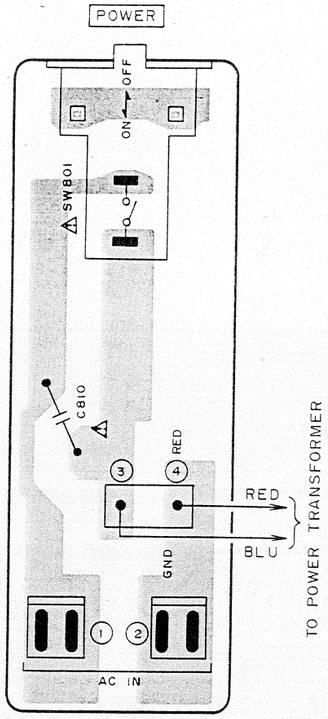
■ ● ● = PNP TRANSISTOR



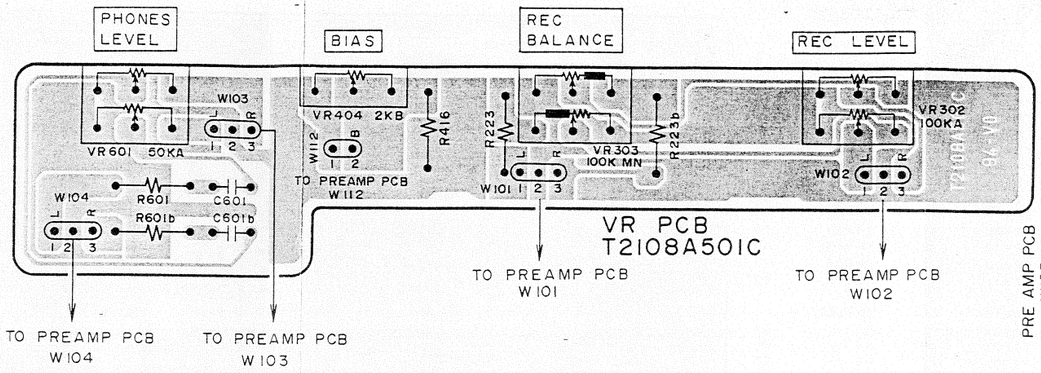
PRE AMP PCB T2108A501A

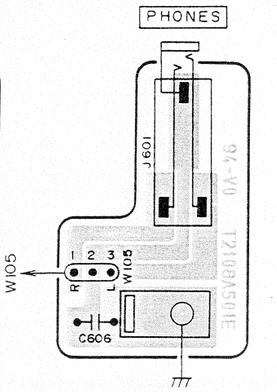
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

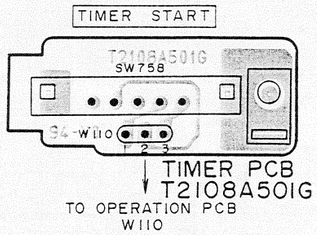
AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

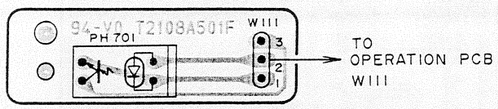


POWER SW PCB
T2108A501D

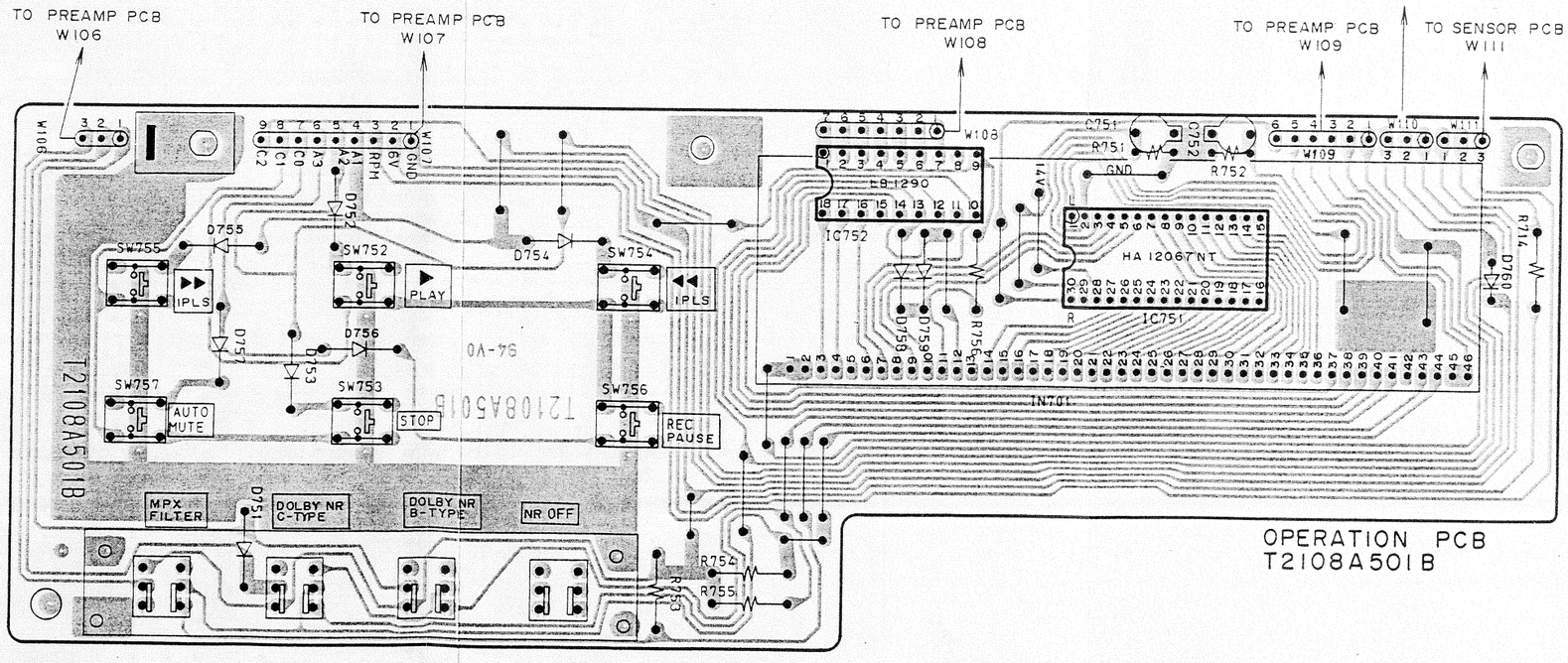








SENSOR PCB
T2108A501F



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